**9-17: Classifying Numbers**

**Natural Numbers:** counting numbers or “regular” numbers

Ex: 1, 2, 3, 4, 5,…

**Whole Numbers:** the natural numbers and zero (0)

Ex: 0, 1, 2, 3, 4, 5, 6, …

**Integers:** the whole numbers and their negatives/opposites

Ex: -12, -1, 0, 1, 12

**Rational Numbers:** the integers and fractions and decimals that terminate (end) or that repeat

Ex: 2, 7/9, -2/9, 0.3­­0982, 0.5, -0.222222222….

**Irrational Numbers:** any decimal that doesn’t repeat or end (non-terminating and non-repeating)

Ex: pi, sqrt(2)

**Real Numbers:** all rational and irrational numbers